

Patent Claims

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1. Method for recording and storing the optically detectable data of object on a storage medium, characterized in that a sequence of a plurality of individual recordings of the object are made with a camera at various spatial settings with respect to the relative position between the object and the camera; in that the sharply imaged areas of the individual recordings are determined; and in that the sharply imaged areas of all the individual recordings are assembled to form one or a plurality of resulting images.
 2. Method as defined in Claim 1, characterized in that the individual recordings are stored in a computer; in that the sharply imaged areas of the individual recordings are determined by the computer with the aid of digital methods; and in that the resulting images are assembled with the aid of the computer.
 3. Method as defined in Claim 2, characterized in that the sharply imaged areas are determined by digital formation of the derivative.
 4. Method as defined in Claim 1, Claim 2, or Claim 3, characterized in that the parameters for recording the

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sequence of individual recordings are predetermined by a computer; and in that the sequence of the recording is controlled by this computer.

- Claim 1
5. b Method as defined in one of the preceding claims, characterized in that the recording of the sequence of individual recordings is started automatically.
6. Method as defined in Claim 5, characterized in that the recording of the sequence of individual recordings is started by means of a photoelectric barrier.
7. b Method as defined in one of the preceding claims, characterized in that the individual recordings are made at fixed, predetermined time intervals.
8. Method as defined in one of the preceding claims, characterized in that the individual recordings are made at fixed, predetermined relative distances between the camera and the object.

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9. b Method as defined in ^{Claim 1} ~~one of the preceding Claims~~, characterized in that a CCD camera is used as the camera for recording the sequence of individual recordings.
10. b Method as defined in ^{Claim 1} ~~one of the preceding Claims~~, characterized in that initially all the individual recordings of the sequence are stored in the computer; and in that the sharply imaged areas are identified after recording of the sequence of individual recordings has been concluded.
11. b Method as defined in ^{Claim 1} ~~one of preceding Claims~~, characterized in that the sharply imaged areas of each individual recording of the sequence are identified and incorporated into the resulting image immediately after they have been recorded.
12. b Method as defined in ^{Claim 1} ~~one of the preceding Claims~~, characterized in that a plurality of resulting images is assembled from the sequence of individual recordings, different areas of the object or different features of the object being shown in the resulting images in each instance.

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Claim 1

13. b) Method is defined in ~~one of the preceding Claims~~, characterized in that the image plane is divided into a plurality of areas; and in that the areas are processed in parallel.

Claim 1

14. b) Method as defined in ~~one of preceding claims~~, characterized in that it is used to identify the features of a finger.

Claim 1

15. Method as defined in ~~one of preceding Claims~~; characterized in that the object is illuminated with a light source.

16. Method as defined in Claim 5, characterized in that a pulsed light source that is synchronized with the camera is used.

17. b) Method as defined in Claim 15 or ~~16~~, characterized in that the object is illuminated by a plurality of light sources of different wavelength ranges and in different arrangements.

Claim 15

18. Method as defined in ~~one of the Claims 15 to 17~~, characterized in that the object is illuminated as long as it is moving towards the camera and away from the camera.

claim 15

19. ^b Method as defined in one of the claims 15 to 18, characterized in that only the areas of the object that are within the focus of the camera are illuminated.

Claim 15

20. Apparatus for carrying out a method according to one of the claims 1 to 18, characterized in that a computer, a camera, and a control device are provided.

Claim 1